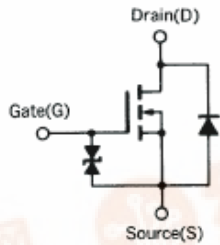
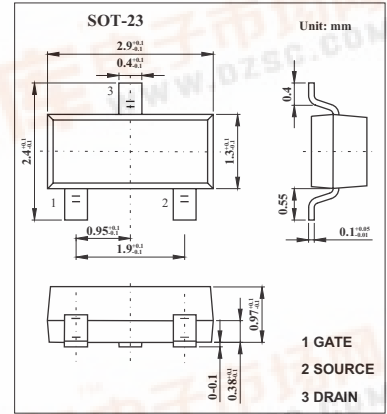


SMD Type MOSFET

## MOS Field Effect Transistor 2SK1133

■ Features

- Directly driven by Ics having a 5V power source.
- Not necessary to consider driving current because of its high input impedance.
- Possible to reduce the number of parts by omitting the biasresistor.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Drain to source voltage	V <sub>DSS</sub>	50	V
Gate to source voltage	V <sub>GSS</sub>	±7.0	V
Drain current (DC)	I <sub>D</sub>	±100	m A
Drain current(pulse) *	I <sub>D</sub>	±200	mA
Power dissipation	P <sub>D</sub>	200	m W
Channel temperature	T <sub>ch</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

\* PW ≤ 10ms, duty cycle ≤ 50%

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Drain cut-off current	I <sub>DSS</sub>	V <sub>DS</sub> =50V, V <sub>GS</sub> =0			-10	μ A
Gate leakage current	I <sub>GSS</sub>	V <sub>GS</sub> =±7V, V <sub>DS</sub> =0			±10	μ A
Gate to source cutoff voltage	V <sub>GS(off)</sub>	V <sub>DS</sub> =5.0V, I <sub>D</sub> =1 μ A	1.0	1.7	2.0	V
Forward transfer admittance	Y <sub>fs</sub>	V <sub>DS</sub> =5.0V, I <sub>D</sub> =20mA	20	40		ms
Drain to source on-state resistance	R <sub>DSON</sub>	V <sub>GS</sub> =4V, I <sub>D</sub> =20mA		16	50	Ω
Input capacitance	C <sub>ISS</sub>	V <sub>DS</sub> =5.0V, V <sub>GS</sub> =0, f=1MHz		7		pF
Output capacitance	C <sub>OSS</sub>		6		pF	
Reverse transfer capacitance	C <sub>RSS</sub>		2		pF	
Turn-on delay time	t <sub>d(on)</sub>	V <sub>GS(on)</sub> =0, V <sub>DD</sub> =5V, f=1MHz		6		ns
Rise time	t <sub>r</sub>		25		ns	
Turn-off delay time	t <sub>d(off)</sub>		36		ns	
Fall time	t <sub>f</sub>		35		ns	

■ Marking

Marking	G11
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